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Please noise characteristics of an outdoor unit connected to a digital satellite broadcast receiver when receiving a burst symbol is estimated based on a bit error rate of an 8PSK modulation signal determined by a trellis decoder (7) when a CNR measured by a CNR measurement circuit (5) is equal to a preset value, and, based on the estimated phase noise characteristics of the outdoor unit, a filter factor of a loop filter (9) inserted into a carrier regenerative loop is set.